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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,366	04/11/2006	Keiji Shigesada	Q93602	9057
23373 7590 94062009 SUGHRUE MION, PLLC 2100 PENNSYI, VANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER	
			KURTZ, BENJAMIN M	
			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			04/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/575,366 SHIGESADA ET AL. Office Action Summary Examiner Art Unit BENJAMIN KURTZ 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 31 March 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 11 April 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

PTOL-326 (Rev. 08-06)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 4/06,9/08,3/09.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

DETAILED ACTION

Claim Rejections - 35 USC § 102 and 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Gianos et US 4 014 653.

Claim 1, Gianos teaches a porous membrane cartridge comprising: a cylindrical barrel (18) having openings at a top end and a rear end, respectively, a cap (10) formed into a cylindrical shape having a fit-in portion fitted outside the top end, abutting with an opening edge of the top end, and having a sandwiching face sandwiching a porous membrane (16) between itself and the barrel, and the porous membrane sandwiched between the opening edge of the barrel and the cap, wherein the cap is fixed to the barrel so as not to be pulled out of the barrel in a state of crushing a peripheral edge of

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the porous membrane and sandwiching the porous membrane between itself and the cap (fig.1-4).

 Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Cosack US 5 096 575.

Claim 1, Cosack teaches a porous membrane cartridge comprising: a cylindrical barrel (2) having openings at a top end and a rear end, respectively, a cap (3) formed into a cylindrical shape having a fit-in portion fitted outside the top end, abutting with an opening edge of the top end, and having a sandwiching face sandwiching a porous membrane (12) between itself and the barrel, and the porous membrane sandwiched between the opening edge of the barrel and the cap, wherein the cap is fixed to the barrel so as not to be pulled out of the barrel in a state of crushing a peripheral edge of the porous membrane and sandwiching the porous membrane between itself and the cap (fig.1).

Claim 7, Cosack further teaches the cap is fixed to the barrel by an engagement between a depression formed on an inner perimeter face of the cap and a protrusion formed on an outer perimeter face of the barrel (fig. 1).

 Claims 2-4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gianos '653. Art Unit: 1797

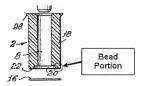
Claim 2, Gianos teaches the cartridge of claim 1 but does not teach the barrel and cap being welded by ultrasound. The recitation of welding by ultrasound renders the claim a product by process claim. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USDQ 964 (1985). The process of connecting the barrel and cap of Gianos is deemed a structural alternative to the process of ultrasonic welding.

Claims 3 and 4, Gianos further teaches the opening edge of the barrel is formed to a taper where an inner perimeter side is more retreated than an outer perimeter side, and the taper is formed with continuing into a flat portion formed at an outmost portion of the opening edge (fig. 4). Gianos does not teach the opening edge being welded to the sandwiching face of the cap. The recitation of welding renders the claim a product by process claim. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USDQ 964 (1985). The process of connecting the barrel and cap of Gianos is deemed a structural alternative to the process of welding.

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Claim 5, Gianos further teaches that a bead portion as an energy director is circularly formed on the opening edge and the porous membrane is sandwiched and crushed with the bead portion (fig. 2, 3, below). The recitation of welding by ultrasound renders the claim a product by process claim. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USDQ 964 (1985). The process of connecting the barrel and cap of Gianos is deemed a structural alternative to the process of ultrasonic welding.



Claim 6 and 8, Gianos further teaches the barrel comprises a joint portion, which is configured to abutting with an opening edge of the fit-in portion of the cap, on an outer perimeter of the barrel (fig. 2-4). Gianos does not teach the cap and barrel being adhered or welded. The recitation of adhering or welding renders the claim a product by process claim. "[E]ven though product-by-process claims are limited by and defined

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by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USDQ 964 (1985). The process of connecting the barrel and cap of Gianos is deemed a structural alternative to the process of adhering or welding.

Claim 9 recites only process limitations for making a cartridge that do not add any further structural limitations to the apparatus. Gianos does not teach the barrel being injection molded. The recitation of molding renders the claim a product by process claim. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re

Thorpe, 227 USDQ 964 (1985). The process of making the barrel of Gianos is deemed a structural alternative to the process of molding.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN KURTZ whose telephone number is Application/Control Number: 10/575,366

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(571)272-8211. The examiner can normally be reached on Monday through Friday 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin Kurtz Examiner Art Unit 1797

/B. K./ Examiner, Art Unit 1797

/Krishnan S Menon/ Primary Examiner, Art Unit 1797